Clinical Research, Vol. VII, 1959

No. 1, JANUARY

Emotional Changes and Lesions of "Temporal Lobe" Structures, page 1

On Editors from the Point of View of an Author, page 4

Notices, page 6

Eastern Section Meeting, Boston, December 1958 Program, page 8

Advance Research Reports, page 11

Western Section Meeting, Carmel, Calif., January 1959

Program, page 51

Advance Research Reports, page 53

Twelfth Annual Meeting of the Western Society for Clinical Research, Carmel, Calif., January 1959 Program, page 86

Advance Research Reports, page 89

Southern Section Meeting, New Orleans, January 1959 Program, page 130

Advance Research Reports, page 132

No. 2, APRIL

The Search for Maturity in Pre-Professional Education, page 177

Man, Medicine and the National Meetings, page 184 Notices, page 186

Current Comment, page 190

National Meeting of the American Federation for Clinical Research, Atlantic City, May 1959 Program, page 193

Subspecialty Meetings under the Joint Sponsorship of the American Federation for Clinical Research and the American Society for Clinical Investigation. page 194 B

B

B

B

B

B

R

B

B

B

B

B

B

B

B

BEEEE

Advance Research Reports, page 199
No. 3, August

The Demon of the Federation, page 313

Communication as a Problem of Science, page 315

Notices, page 318

Current Comment, page 322

Membership Roster: American Federation for Clinical Research, page 330

No. 4, NOVEMBER

A Note on the Shortage of First Rate Research in Psychiatry, page 375

Notices, page 386

Program, Midwestern Section, page 382

Advance Research Reports Submitted to the Annual Meeting of the Midwestern Section, American Federation for Clinical Research, Chicago, November 1959, page 390

Annual Author Index, page 398 Annual Subject Index, page 404

AUTHOR INDEX

Abarquez, R., 223
Abbott, E. A., 104
Abbott, W. E., 390
Abelmann, W. H., 22, 25, 232
Acosta-Matienzo, J., 262
Adams, D. A., 77
Adams, R. W., 396
Adams, W. S., 95, 96
Addersberg, D., 23
Afonso, S., 387
Aikawa, J. K., 69, 72, 82
Aitken, E. H., 157
Akiyama, J. K., 69
Albright, E. C., 240
Alexander, B., 15
Alexander, J. K., 171
Alexander, R. W., 283
Allen, J. C., 278
Allen, R. L., Jr., 287
Allison, F., Jr., 236, 393
Alper, C., 18
Ambrus, C. M., 217
Ambrus, J. L., 217

Anderson, B. G., 63
Anderson, R. E., 68
Andy, O. J., 167
Angelakos, E. T., 18
Angers, M., 64
Arana, J. A., 271
Arditi, L., 16
Arias, I. M., 291
Arons, W. L., 62, 108
Artz, C. P., 159, 169
Ashenbrucker, H., 92
Ashley, C. A., 215
Ashworth, W. D., 258
Assali, N. S., 78, 121
Atchley, W. A., 79
Athens, J. W., 92
Attinger, E. O., 304
Au, W. Y. W., 280
Auchincloss, J. H., Jr., 306
August, J. T., 274, 276
Austen, F. K., 24
Ayers, C. R., 149

Bacos, J. M., 227 Baertl, J. M., 292 Bailey, R. E., 112 Baker, F., 14
Baker, S. P., 291, 390
Baldini, M., 210
Baldwin, D., 283
Ball, O. G., 393
Bancroft, W. H., 227
Bang, N. U., 214
Banks, B. M., 35
Bannerman, R. M., 202
Barcellini, A., 115
Barker, S. B., 142
Barnes, A. E., 202
Barnett, J. A., 158
Barnett, W. O., 155
Barnett, E., 58
Bartlett, G. R., 91
Bartter, F. C., 161, 253, 254
Bauer, F. K., 114
Bauer, M. A., 389
Baxter, C. R., 280
Bayley, R. H., 223
Bazan, A., 271
Beall, A. C., Jr., 172
Beall, G. N., 69
Beck, D., 42, 275
Beck, J. C., 28

Becker, R., 212
Bedell, G. N., 230, 396
Beeken, W. L., 114
Beierwaltes, W. H., 243, 244, 388
Beigelman, P. M., 63, 109
Beisel, W. R., 24
Bell, N. H., 132
Bellet, S., 220
Belsky, J. L., 245
Benedek, T. G., 276
Bennett, I. L., Jr., 41, 160
Bennett, L. R., 116, 119
Benson, R. C., 94
Bergenstal, D. M., 251
Berk, J. E., 391
Berkowitz, D., 225, 255
Berlin, N. I., 11
Berman, L. B., 282
Bernstein, S. H., 267
Bernstein, S. H., 267
Bernstein, W. H., 302
Berry, J. N., 136, 154, 292
Berry, W. B., 163

Clinical Research, Vol. VII, 1959

No. 1, JANUARY

Emotional Changes and Lesions of "Temporal Lobe" Structures, page 1

On Editors from the Point of View of an Author, page 4

Notices, page 6

Eastern Section Meeting, Boston, December 1958 Program, page 8

Advance Research Reports, page 11

Western Section Meeting, Carmel, Calif., January 1959

Program, page 51

Advance Research Reports, page 53

Twelfth Annual Meeting of the Western Society for Clinical Research, Carmel, Calif., January 1959 Program, page 86

Advance Research Reports, page 89

Southern Section Meeting, New Orleans, January 1959 Program, page 130

Advance Research Reports, page 132

No. 2, APRIL

The Search for Maturity in Pre-Professional Education, page 177

Man, Medicine and the National Meetings, page 184 Notices, page 186

Current Comment, page 190

National Meeting of the American Federation for Clinical Research, Atlantic City, May 1959 Program, page 193

Subspecialty Meetings under the Joint Sponsorship of the American Federation for Clinical Research and the American Society for Clinical Investigation. page 194 B

B

B

B

B

B

R

B

B

B

B

B

B

B

B

BEEEE

Advance Research Reports, page 199
No. 3, August

The Demon of the Federation, page 313

Communication as a Problem of Science, page 315

Notices, page 318

Current Comment, page 322

Membership Roster: American Federation for Clinical Research, page 330

No. 4, NOVEMBER

A Note on the Shortage of First Rate Research in Psychiatry, page 375

Notices, page 386

Program, Midwestern Section, page 382

Advance Research Reports Submitted to the Annual Meeting of the Midwestern Section, American Federation for Clinical Research, Chicago, November 1959, page 390

Annual Author Index, page 398 Annual Subject Index, page 404

AUTHOR INDEX

Abarquez, R., 223
Abbott, E. A., 104
Abbott, W. E., 390
Abelmann, W. H., 22, 25, 232
Acosta-Matienzo, J., 262
Adams, D. A., 77
Adams, R. W., 396
Adams, W. S., 95, 96
Addersberg, D., 23
Afonso, S., 387
Aikawa, J. K., 69, 72, 82
Aitken, E. H., 157
Akiyama, J. K., 69
Albright, E. C., 240
Alexander, B., 15
Alexander, J. K., 171
Alexander, R. W., 283
Allen, J. C., 278
Allen, R. L., Jr., 287
Allison, F., Jr., 236, 393
Alper, C., 18
Ambrus, C. M., 217
Ambrus, J. L., 217

Anderson, B. G., 63
Anderson, R. E., 68
Andy, O. J., 167
Angelakos, E. T., 18
Angers, M., 64
Arana, J. A., 271
Arditi, L., 16
Arias, I. M., 291
Arons, W. L., 62, 108
Artz, C. P., 159, 169
Ashenbrucker, H., 92
Ashley, C. A., 215
Ashworth, W. D., 258
Assali, N. S., 78, 121
Atchley, W. A., 79
Athens, J. W., 92
Attinger, E. O., 304
Au, W. Y. W., 280
Auchincloss, J. H., Jr., 306
August, J. T., 274, 276
Austen, F. K., 24
Ayers, C. R., 149

Bacos, J. M., 227 Baertl, J. M., 292 Bailey, R. E., 112 Baker, F., 14
Baker, S. P., 291, 390
Baldini, M., 210
Baldwin, D., 283
Ball, O. G., 393
Bancroft, W. H., 227
Bang, N. U., 214
Banks, B. M., 35
Bannerman, R. M., 202
Barcellini, A., 115
Barker, S. B., 142
Barnes, A. E., 202
Barnett, J. A., 158
Barnett, W. O., 155
Barnett, E., 58
Bartlett, G. R., 91
Bartter, F. C., 161, 253, 254
Bauer, F. K., 114
Bauer, M. A., 389
Baxter, C. R., 280
Bayley, R. H., 223
Bazan, A., 271
Beall, A. C., Jr., 172
Beall, G. N., 69
Beck, D., 42, 275
Beck, J. C., 28

Becker, R., 212
Bedell, G. N., 230, 396
Beeken, W. L., 114
Beierwaltes, W. H., 243, 244, 388
Beigelman, P. M., 63, 109
Beisel, W. R., 24
Bell, N. H., 132
Bellet, S., 220
Belsky, J. L., 245
Benedek, T. G., 276
Bennett, I. L., Jr., 41, 160
Bennett, L. R., 116, 119
Benson, R. C., 94
Bergenstal, D. M., 251
Berk, J. E., 391
Berkowitz, D., 225, 255
Berlin, N. I., 11
Berman, L. B., 282
Bernstein, S. H., 267
Bernstein, S. H., 267
Bernstein, W. H., 302
Berry, J. N., 136, 154, 292
Berry, W. B., 163

Bethell, F. H., 385
Bettarello, A., 117
Beutler, E., 70, 199
Bierman, H. R., 93
Bigler, R., 62, 64, 107
Binak, K., 388
Bird, R. M., 385
Bithell, T. C., 216
Bjerklie, A., 204
Blair, A. E., 250
Blair, C., 284
Blair, E., 236
Blair, J., 28
Blaisdell, R. K., 70
Bleifer, K. H., 245
Bloch, K., 31
Block, J. B., 34
Bloomfield, D. K., 31
Blythe, W. B., 274
Boak, R. A., 123
Bogdonoff, M. D., 135, 184
Bolding, O. T. 144 Bethell, F. H., 385 Doguonoff, M. D., 135, 184
Bolding, O. T., 144
Bollet, A. J., 307
Boltax, A. J., 233
Bond, V. P., 68
Bond, W. H., 216
Bor, N., 98, 100
Borden, C., 237
Borun, E. R., 53, 201
Botham, R. J., 229
Boyles, P. W., 137, 219
Bouvier, C., 223
Bozian, R. C., 262
Brachfeld, N., 222
Bradshaw, J. S., 390
Brandborg, L. L., 120
Branscomb, B. V., 170
Braude, A., 269, 284
Braun, H., 387
Braunwald, E., 20, 228, 229, 293
Brottell H. B. 22 184 229, 293 229, 293
Brettell, H. R., 82
Bricker, N. S., 277, 394
Briggs, W., 263
Britton, B. H., Jr., 151
Bronsky, D., 218
Brooke, M. S., 39
Brown, J., 110, 116
Browne, J. S., 167
Browser, R. 40 Browne, J. S., 167 Browser, R., 40 Brubaker, C. A., 57, 93 Bruce, R. A., 99 Bruns, D. L., 231 Bryant, J. M., 219, 221, 239, 262 239, 262
Buchanan, D. L., 28
Buchholz, J. H., 285
Bundy, H., 117
Bunnell, I. L., 228
Burack, W. R., 269
Burnett, L., 60
Burrows, B. A., 34,
256, 283
Buse, J., 146 286 Buse, J., 146 Buse, M. G., 146 Busey, J. F., 393 Butler, J., 84 Butterworth, C. E., Jr., 156, 261 Byers, S. O., 105

for 59 ip of earch stiga-

315

Clini-

ch in

nnual

erican

, No-

396

4 ., 243.

63,

76 ., 41,

82 6, 247

267

3

, 302

6, 119 1., 251 5, 255

Caceres, C. A., 16, 137, 220, 255 Cady, P., 105 220, 235
Cady, P., 105
Calatayud, J., 255
Caldwell, J. R., 235
Caldwell, W. L., 103
Caliva, F., S., 18, 222
Calvy, G. L., 267
Campbell, E. W., 212
Campbell, G. S., 61
Campbell, J., 55
Campbell, M. L., 134
Canary, J. J., 146
Carbone, J. C., 66
Carbone, J. V., 118
Carbone, P., 67
Cardarelli, J. A., 283
Carey, T. N., 29 Carey, T. N., 29
Careton, R. A., 16
Carpenter, C. M., 123
Carpenter, R. L., 265
Carr, E. A., 388
Carr, E. A., Jr., 243,
244
Carr, H. F. J., 267 244
Carr, H. E., Jr., 27
Carreon, G. G., 146
Carroll, H. J., 287
Carroll, N. V., 65
Carter, A. C., 240
Carter, N. W., 172, 273
Carter, T. E., 146
Cartwright, G. E., 56, 89, 92 89, 92 89, 92 Case, R. B., 222 Cashin, P. J., 219, 221 Casten, G. G., 234 Castillo, C. A., 229, 387 Castle, J. N., 84 Castle, W. B., 206 Castro, Z., 33, 259 Caylor, H. D., 245, 389 Chalmers, T. C., 37, 38, 200 200 Channick, B. J., 28 Chaplin, H., Jr., 205 Cherrick, G. R., 290 Chobanian, A. V., 256 Chodos, R. B., 33, 260 Chojecki, Z., 391 Christensen, D. W., 96 Chung, A. C., 212 Cincotti, J., 249 Cintrón-Rivera, A. A., 262 262 Claffey, J., 240 Clark, M. L., 148 Clark, M. L., 148 Clarkson, B., 37 Clayton, L. E., 65 Clemente, C. D., 1 Clifford, G. O., 199 Cliffton, E. E., 214, 223 Cline, M. J., 39 Clure, H., 388 Coates, J. R., 267 Cobb, L. A., 99 Cochran, B., Jr., 64 Cochran, T. H., 128 Coers, R., 138 Coers, R., 138 Cohen, G., 237 Cohen, W. D., 20 Cohn, G. L., 29

Cohn, J. E., 128
Coker, R., 143
Cole, V. W., 171
Collier, C., 54
Collins, Z., 56, 215
Colp, C. R., 301
Conn, J. H., 134
Conn, J. W., 249, 253
Conn, H. O., 297
Connor, T. B., 29
Conrad, L. L., 223
Cook, C. D., 305
Cooper, B. A., 206
Cortes, F. M., 28
Coryllos, E., 221
Costea, N., 210
Costiloe, J. P., 170
Cotran, R., 45
Cox, R. S., Jr., 69, 72, 111 Crabbé, J., 254 Crabbé, J., 254
Craigie, A., 392
Crawford, H. W., 171
Crawford, M. A., 113
Crevasse, L., 160
Criley, J. M., 282
Crocker, T. T., 126
Croft, G. F., 73
Cronkite, E. P., 68
Crump, C. H., 47, 298
Crumpton, C. W., 229, 387 Cuddy, T. E., 223 Cudkowicz, L., 22 Culp, N. W., 205 Cummins, A. J., 152 Cunningham, D. M., 98 Curtin, J. A., 160 Cushing, I. E., 396 Cuthbertson, E. M., 104 Dahl, J. R., 70 Dalen, J. E., 99 Dameshek, W., 39, 210 Darragh, J. H., 251 Darvill, F. T., Jr., 82, 83, 243 Dasgupta, K., 78 Davidson, C. S., 290 Davidson, R., 243

Davidson, R., 243
Davis, J., 127
Davis, T., 29
Dawson, C. R., 75
Deamer, W. C., 107
De Bakey, M. E., 163
Debons, A. F., 251
De Groot, L. J., 244
Deiss, W. P., 390
Delea, C. S., 253, 254
DeLeon, A. C., 220
Desai, R. G., 94, 213
De Santo, L. W., 388
Desforges, J. F., 11, 12
Devereaux, R. G., 81, 120 120

120
DeWeese, J. A., 231
Dewter, L., 232
Diaz-Rivera, R. S., 262
Dick, H. L. H., 97
Digman, W. J., 78
Dingledine, W. S., 136

Dingman, J. F., 272
Dinning, J. S., 143
DiRaimondo, V. C., 62, 64, 107, 112
Doan, J., 390
Dobson, H. L., 169
Dock, D. S., 232
Dodson, V. N., 244
Doe, R. P., 252
Doherty, J. E., 133
Doherty, M., 76, 91
Dolendo, E. C., 125
Dölle, W., 392
Domz, C. A., 58
Donaldson, R. R., 98
Donlon, W. P., 218
Doolan, P. D., 66
Dorosin, D., 112
Dotter, C. T., 103
Dow, E. C., 246
Dowing, J. T., 23, 65, 79, 111 79, 111 Dowling, J. T., 241, 246, 247 247
Doyle, E. M., 150
Dreiling, D. A., 32, 251
Drerup, A. L., 164
Dresner, E., 49
Driscoll, T. D., 55
Druet, D., 389
Dubi, A. 218, 201 Dubin, A., 218, 291, 390 Duffy, P. E., 21 Duino, M., 104 Dustan, H. P., 21 Duval, M. K., Jr., 152 Dyce, B., 117 Dyniewicz, J. M., 294

Eadie, G. S., 132 Earley, L. E., 36 Earley, W., 141 Eaton, N. R., 115 Eckstein, J. W., 238 Eddleman, E. E., Jr., 233 Eddy, R. C., 80 Egan, T. J., 149 Egdahl, R. H., 158, 252 Eich, R. H., 304 Eichenholz, A., 76 Eisenberg, G. M., 268 Eisner, A., 39 Eldridge, F., 127 Eliasson, S. G., 81, 167, 296 Elliot, J. S., 124 Elsbach, P., 287 Ely, N. E., 309 Ely, N. E., 309 Emanuel, D. A., 386 Emerson, P. A., 303 Emirgil, C., 36 Ende, N., 54 Engel, H. R., 251 Engel, M., 200 Engelman, E. P., 121 Engel, M., 200 Engelman, E. P., 121 Englert, E., Jr., 289 English, J. C., 103 Epstein, F. H., 42, 275 Epstein, W. V., 121 Erslev, A. J., 201 Escamilla, R. F., 107 Escher, D. J. W., 228 Esterly, J. R., 263 Estes, E. H., Jr., 256 Eton, B., 157

Fahey, J. L., 217
Fain, W. R., 134
Fajans, S. S., 249
Faloon, W. W., 33, 260
Fankhauser, S., 388
Fanska, R., 118
Farber, S. J., 287
Farber, S. M., 75
Farmer, S. 404 Farber, S. M., 75
Farmer, S., 404
Farr, R. S., 263
Farrar, J. T., 33
Farrell, G. W., 134
Faulk, A. T., 266
Faulkner, J. B., 55
Feder, B. H., 93
Fedor, F. J., 42, 139
Feichtmeir, T. V., 66
Feigon, J. H., 216
Feigner, A. R., 50, 308
Feist, E., 115 Feistein, A. R., 50, 5 Feist, E., 115 Feldman, D. S., 297 Feldman, E. B., 240 Feldman, S., 297 Feller, D. D., 115 Felton, L., 105 Fergeson, R. A., 267 Ferrebee, J. W., 214, 215 Fessel, W. J., 121 Field, J. B., 125, 247, 248
Field, M., 200
Field, M. H., 389
Fierer, E. M., 302
Finch, S. C., 265
Finegold, S. M., 73
Fink, A., 201
Finland, M., 268
Finlayson, J. K., 231
Finley, T., 84
Finnerty, F. A., Jr., 285 248 285 Fishback, M. E., 60 Fitch, C. D., 143 Fitch, W. L., 69 Flanagan, J. F., 154, 292 292
Fletcher, L., Jr., 239
Fliedner, T. M., 68
Flink, E. B., 252
Flippin, H. F., 268
Floyd, J. C., Jr., 244
Flynn, P. F., 115, 119
Foa, P. P., 390
Foote, W. D., 285
Forbes, A. P., 240 Forbes, A. P., 240 Forsham, P. H., 62, 107 Forsham, P. H., 62, 107 Foster, D. W., 256 Frank, C. G., 96 Frankel, A., 226 Frankland, M., 117 Franklin, S. S., 276 Fratianne, R. B., 384 Frawley, T. F., 249, 254 Frayser, R., 301

Freedman, P., 277 Freedman, S. F., 69 Freinkel, N., 25, 79, 247 Freis, E. D., 42, 139 Friedberg, S. J., 150, 256 Friedkin, M., 207 Friedman, M., 105 Friou, G. J., 40, 264, 266 Frische, L. H., 103 Froeb, H. F., 127 Frohlich, E. D., 42, 139 Frommeyer, W. B., Jr., 133, 134 Fruchtman, S. A., 252 Frumin, A. M., 266 Frye, R. L., 228 Fulton, G. P., 94, 213 Fukayama, G., 119 Furth, F. W., 21, 304

Gabuzda, G. J., 292 Gagliardi, R. A., 391 Galambos, J. T., 168 Galloway, R. E., 273, 274 Gann, D. S., 254
Gantt, C. L., 294
Gardner, F. H., 210
Garrett, W., 127
Gauthier, J., 212
Gautney, M. C., 308
Geiger, M. T., 212
Gelman, S., 13
Gelpi, A. P., 54, 84
George, M., 225
Gerdes, J. C., 93
Germain, L., 209
Gertler, M. M., 19
Gesner, B. M., 287
Giblett, E. R., 92 Gann, D. S., 254 308 Giblett, E. R., 92 Giblett, E. R., 92 Gilbert, R., 305 Giles, R. B., Jr., 153, 260 Gilfillan, R. S., 104 Gill, F. A., 50 Gill, J. R., Jr., 161, 254 Gilmore, H. R., III, 234 Gilson, I. T., 235 Ginn, E., 276 Ginn, E., 276
Giordano, C., 44
Gitlow, S. E., 237
Glauser, E. M., 239
Glazko, A. J., 268
Gleason, W. L., 227
Gobbel, W. G., Jr., 150
Gold, E., 62, 64, 68, 107
Goldbarg, J. A., 35
Goldberg, H. I., 43
Goldflen, A., 116

Goldfien, A., 116 Goldman, R., 124 Goldman, W. W., Jr.,

Goldstein, F., 261 Goldsworthy, P. D., 114

Goodart, D., 107 Goodman, H. C., 40, 264 Goodner, C. J., 247 Gordon, A., 233 Gordon, G. B., 76

167

Gordon, G. S., 82 Gordon, G. S., 82 Gorlin, R., 222, 230 Gorson, R. O., 108 Gorten, R. J., 135, 237 Gott, F. S., 386 Grace, W. J., 26, 38 Graham, D. E., 24 Graham, J. C., 165 Gray, I., 65 Gray, I., 65 Green, B. E., 169 Greenberg, M. S., 200, 205 Greendyke, R. M., 208 Greene, D. G., 228 Greene, M. A., 233 Greene, M. A., 233 Gregory, K. F., 295 Gregory, R., 157 Greipel, M., 117 Grey, H. M., 263 Griffin, J. C., Jr., 139 Griffin, S. W., 173 Griffith, G. T., 228 Griggs, R. C., 384 Griswold, H. E., 98, 101 Grodsky, G. M., 118 Grogan, J. B., 159 Groisser, V. W., 33, 294 294 Grossberg, S. E., 160 Grossman, J., 229 Grossman, M. I., 117 Gruber, F., 226 Guilak, H., 169 Guinand-Baldo, A., 44 Gunnells, J. C., 135, 237 Guteirrez, J. E., 384 Gutekunst, R. R., 270 Guthrie, A. E., 171 Guze, L. B., 300 Guzman, S. V., 224

Haar, H., 57 Haasis, L., 154 Haddy, F. J., 237, 386 Hajdu, S., 19 Hajdu, S., 19
Hakim, A. A., 166, 219
Haley, M. I., 105
Hall, P. W., III, 30
Hamburger, J. I., 391
Hamburgh, M., 142
Hammack, D. F., 24
Hammack, W. J., 133, 134 Hammarsten, J. F., 162, 265, 276 265, 276
Hammond, D., 53, 57
Handler, J. S., 279
Hardy, J. D., 146, 147
Harlan, W. R., Jr., 256
Harrington, W. J., 386
Harris, H. W., 74, 124
Harris, J. W., 384
Harris, L. D., 258
Harrer, H. A., 90 Harris, L. D., 258 Harper, H. A., 90 Hart, J. E., 74 Hart, K. T., 389 Hastings, E., 18 Hathaway, B., 170 Hauser, A. D., 281 Havel, R. J., 62, 116 Haverback, B. J., 117

Hawk, W. A., 395 Hawkins, R., 387 Hayden, D. T., 127 Hayes, E. H., 273, 274 Hayes, R. L., 144 Hayford-Welsing, E. J. 302 302
Haymond, D. R., 96
Haynes, F. W., 232
Hays, R. M., 44
Hecht, H. H., 102
Hefly, B. F., 170
Hefner, L. L., 227
Heggie, A. D., 270
Hegnauer, A. H., 18
Heinemann, H. O. 38 Hegnauer, A. H., 18 Heinemann, H. O., 36 Hellems, H., 388 Heller, P., 207, 211 Helman, N., 391 Henderson, F., 388 Henke, W. J., 252 Henneman, D. H., 25 Henneman, P. H., 286 Hennes, A. R., 265 Henrey, M., 173 Herbert, V., 33, 259 Herman, E. C., Jr., 204 Herndon, E. G., Jr., 24, 27 27 Herrold, G. H., 104 Heyford-Welsing, E. J., 171 Higano, N., 20 Higano, N., 20 Higgins, E., 396 Hilf, M. M., 304 Hill, J. G., 251 Hill, R. L., 89 Hill, S. R., Jr., 142, 144, 308 Hine, G. J., 283 Hinz, J. E., 209 Hirschowitz, B. I., 32, 391
Hocott, J. B., 300
Hoeprich, P. D., 73, 123
Hofheins, C. C., 100
Holdener, P., 392
Holland, J. F., 228
Hollander, W., 256
Holley, H. L., 173, 308
Hollifield, G., 149
Hollister, R. M., 269
Holmes, T. H., 74, 80, 106, 309
Hooberry, J. J., Jr., 148 391 106, 309 Hooberry, J. J., Jr., 148 Hood, R. M., 172 Hopper, J., Jr., 125 Horsley, A. W., 238 Hoskinson, W. S., 108 Houser, H. B., 270 Howard, R. P., 170 Howerd, R. P., 170 Howe, J. S., 282 Howell, R. R., 257 Hsia, D. Y.-Y., 257, 392 Huff, R. L., 115, 127 Hughes, A. H., 81, 167,

296

Hugh-Jones, K., 392 Hutchin, M. E., 66 Hutchings, J. J., 107 Hutchings, J. H., 118

Huvos, A., 266, 286

Н H

Th

Ir

Ir

Is

Js

Ja

Ja

Ja Ja J Ja J

J

Ja Ja Ja Ja Ja Ja

J

J

J

J

J

Je Je Je Je Je Je

K K

K

K

K K K

K K K K

K K K

KKKKKKK

K

K

Hyman, C. B., 93 Hyman, C., 103, 104

4

J.,

16

36

204

24,

J.,

44.

32,

123

0

108

9

0,

148

103

392

167, 2

118

Iber, F. L., 392 Ingbar, S. H., 23, 79, 245 Ingelfinger, F. J., 258 Isselbacher, K. J., 34

Jackson, C. E., 245, 389 Jackson, J. K., 74 Jacobson, D., 269, 284 Jacobson, E. D., 33, 260 260
Jaenike, J. R., 272
Jaffé, E. R., 12
Jagger, P. I., 34, 283
Jagiello, G., 109
James, T. N., 387
Jandl, J. H., 205, 206
Janowitz, H. D., 32
Janssen, B., Jr., 151
Jay, B., 396

Jenkins, M. A., 114 Jenne, J. W., 393 Jensen, D., 109 Jensen, W. N., 13, 204 Jermain, L. F., 216 Joffe, J., 106

Joffe, J., 106 Johnson, L., 291 Johnson, P., 248 Johnson, P. C., 55, 59, 60, 148, 222 Johnston, B. J., 295 Johnston, M. L., 173 Jones, R. S., 122 Jones, R., 108 Jones, W. B., 227 Jose, A. D., 230, 305 Jose, A. D., 230, 305 Josephs, R. K., 24 Jost, F., 26 Julian, D. G., 47

Kadull, P. J., 48 Kaitz, A., 45 Kalant, N., 44 Kalaw, E., 11 Kalbfleisch, J., 385 Kantor, E. A., 73 Kaplan, N., 145, 248 Kark, R. M., 277, 279, 285

285
Kass, E., 45
Katsura, S., 99
Katznelson, G., 232
Kefalides, N. A., 271
Keith, B., 141
Kelley, J. R., 43
Kelly, K. H., 93
Kelly, M. G., 46
Kelser, G. A., Jr., 16 Kelser, G. A., Jr., 16, 137, 220, 255

137, 220, 255 Kennedy, B. J., 395 Kennedy, R. J., 26 Kern, F., Jr., 260, 391 Kessler, E., 287 Ketre, K. D., 265 Ketterer, S. G., 71, 289 Khalil, S. A., 235 Khassis, S., 237 Khassis, S., 237 Khazin, A., 389 Khoo, E. C., 390

Kilbourne, E. D., 160 Kilbourne, E. D., 160 Kilburn, K. H., 233 Kilgore, W., 159 Killip, T., III, 35 Kimbel, P., 239 Kime, S. W., 394 Kime, S. W., Jr., 277 Kinsell, L. W., 115, 119 Kistler, H., 254 Kittinger, A., 119 Kleeman, C. R., 65, 77, 110, 111, 246, 247 Klein, R., 149

110, 111, 246, 247 Klein, R., 149 Kliman, B., 45 Klip, W., 227 Kloetzel, M. C., 126 Klopstock, R., 303 Knauff, R. E., 249 Knauff, R. E., 249 Knight, R. A., 74, 124 Kobernick, J., 284 Kobernick, S., 391 Koch, B., 203 Koenig, H., 395 Kolb, F. O., 107 Koler, R. D., 218 Koplowitz, J. M., 65,

111 Kornel, L., 147 Korst, D. R., 385 Koszewski, B. J., 209, 385

Kowlessar, O. D., 37 Kramer, N. C., 164, 282

282 Kramer, S., 261 Kraus, A. P., 203 Kraus, W. L., 232 Kraut, J. M., 89 Krevans, J. R., 203 Kubie, L. S., 177 Kuhn, L. A., 226 Kunn, L. A., 226 Kuida, H., 102 Kunin, C. M., 268 Kupfer, S., 226 Kurnick, N. B., 93 Kushner, D. S., 218 Kuzma, O., 71 Kyle, L. H., 27, 146 Kyriakopoulos, A., 162

Labby, D. H., 118 Lack, A., 61 LaDue, J. S., 223 Lalezari, P., 13 Lambert, C. A., 90 Lambert, T. H., 109,

110 Lamdin, E., 44 Lamdin, E., 44 Lane, M., 46 Lang, S., 386 Lange, R. L., 102 Langford, H. G., 140, 226 236 Lanman, H., 108 Larson, F. C., 240 Lathem, W., 13 LaVeck, G. D., 257 Law. D. H., IV, 265 Lawson, J. D., 143

Leaf, A., 44 Lee, H., 90 Lee, S. S., 139, 152, 155

Leeming, J. T., 2 Leevy, C. M., 290 Leffler, R. J., 138 Leonard, E., 19 Leonard, E., 19 Lessman, E., 217 Lessner, H. E., 207 Levey, S., 390 Levin, W. C., 203 Levine, H., 291 Levinson, G. E., 16, 22,

25

Levitan, R., 217 Levitan, H., 42, 275 Levitt, M. F., 281 Levitt, M. F., 281 Levy, H. A., 18 Levy, H., 226 Levy, M. R., 287 Levy, M. S., 281 Lewinter, P., 258 Lewis, B. M., 171, 302, 397

Lewis, D. H., 235, 239 Ley, A. B., 211 Li, Choh Hao, 62, 107 Li, J. G., 90 Lieberman, A. H., 112 Lieberman, J., 128 Liebling, M. E., 132

Liese, G., 103 Likoff, W., 225, 255 Lindberg, J. H., 78 Linder, H., 392 Lipscomb, H., 169 Lipsett, M. B., 251 Lochte, H. L., Jr., 214, 215 215

Lombardo, C. R., 293 Long, J. B., 101 Long, R. T. L., 293 Lonn, L. I., 257 Lopez, E., 272 Lord, T., 396 Lovice, H., 29

Lowenstein, J. M., 103 Lubart, M., 28 Lucia, S. P., 91 Luria, M. N., 231 Luetscher, J. A., Jr., 112 Lukas, D. S., 16 Lumb, G., 164 Lumus, F. L., 403

Luse, S., 394 Lutwak, L., 135, 143 Lyons, H. A., 47 Lyons, R., 18 Lyons, R. H., 222, 303

MacDonald, F., 76 MacIntyre, W. J., 386 Mack, R. E., 389 Maclachlan, M. J., 307 Macleod, C. A., 21 MacMartin, M. P., 114 Maddox, R., 71
Madison, L. L., 145, 248
Maekawa, T., 93
Maffly, R. H., 44
Magee, J. H., 281
Maher, J. F., 27, 298
Maher, J. R., 111
Mahoney, F. R. 231 Mahoney, E. B., 231

Malvea, B. P., 38
Mandel, W., 75, 76
Manfredi, F., 301, 306
Manitius, A., 275
Mannick, J. A., 215
Marc-Aurele, J., 299
Margen, S., 95
Marinetti, G., 278
Mark, H., 17
Marr, T. A., 78
Marshall, R. A., 206
Marshall, R. A., 206
Marshall, R. J., 387
Martin, H. E., 108

Martin, H. E., 108 Martinez-de Jesus, J., 261

Masley, P., 26 Massaro, G. D., 285 Mauer, A. M., 92 Maxwell, G. M., 229, 387 Maxwell, M. H., 65, 77.

111, 246, 247 Mayer, K., 211 Mayer, W. H., 137 293 Mazzoleni, A., McBride, A., 90 McCall, C. B., 170 McCarthy, E. A., 34 McCawley, E. L., 97 McCawley, E. L., 97 McCluskey, R. T., 306 McCune, R., 160 McFarland, J. A., 20 McFarling, C., 166 McGaff, C. J., 230 McGinty, J. D., 302 McGovern, G. R., 231 McIlroy, M. B., 84 McIntosh, H. D., 136,

227 McKeever, W. P., 387 McKittrick, R. L., 39 McKusick, V. A., 263 McNamara, J., 394 McNeil, C. D., 147 McNeil, J. H., 142 McRae, J. M., Jr., 155 Meador, R., 396 Meador, R., 46 Mechanic, R., 46 Mehta, S. R., 204 Melbye, R. W., 119 Mellinkoff, S. M., 117

Mena, I., 119 Mendeloff, A. I., 313 Mendeloff, J., 294 Mendlowitz, M., 4, 237 Menguy, R. B., 152, 259, 392

392
Merchant, R. K., 41
Merrill, J. M., 141
Merrill, J. P., 44, 276
Merritt, F. L., Jr., 238
Metcoff, J., 272
Mettier, S. R., 90
Michaels, G. D., 115
Mijnssen, J. P., 36
Mikkelsen, W. P., 108
Miller, A., 209
Miller, B. S., 271
Miller, D. E., 227
Miller, E., 46
Miller, J. N., 123

Miller, L. F., 270

Miller, S., 56, 57, 215
Miller, W. F., 396
Miller, W. D., 113
Millor, W. D., 113
Millor, W. R., 230, 305
Mireles, A., 125
Mitchell, M. L., 26, 241
Mize, W. R., 137
Mock, D. C., 162
Moeller, H. C., 81, 120
Moir, T. W., 386
Mommaerts, W. F. N.
M., 298
Monroe, L. S., 119
Montano, A., 93
Moore, M., 265
Moreno, A. H., 38
Morledge, J. H., 99
Morrin, P. A. F., 277
Morris, G. C., Jr., 163
Morrison, R. S., 37, 293
Morrow, A. G., 229, 293
Moss, J. X., 124
Motulsky, A. G., 89, 257
Mueller, J. F., 390
Mueller, J. F., 390
Mueller, O., 221
Muller, H. A., 78
Mulrow, P. J., 29, 286
Mulvey, P., 24
Murdaugh, H. V., Jr., 162, 273, 274, 298
Murphy, A., 53
Murphy, V. B., 46
Murray, J. F., 71, 290
Musto, D. F., 89

Nahas, G. G., 302
Nance, F. C., 70
Napodano, R., 18
Nathan, D. G., 11
Nebel, L., 290
Neely, W. A., 163
Nelson, D. H., 27, 274
Nelson, R. M., 96
Nettles, J. B., 279
Newman, S., 64, 107, 112
Newton, W. L., 292
Nichols, G., Jr., 30, 254, 284
Nickerson, J. F., 142
Nicoloff, J., 241
Nicoloff, R., 241
Nordyke, R. A., 295
Norman, P. S., 48
Norman, T. D., 138
Nugent, C. A., 113
Nussbaum, M., 13
Nydick, I., 223
Nye, W. H. R., 278

O'Brien, G. F., 49 O'Brien, R. L., 385 O'Brien, T. F., 280 Odom, R., 14 Olmstead, E. G., 385 Olson, J. B., 106 O'Rourke, M. E., 26, 241 Ortmeyer, L., 392 Orvis, H. H., 140 Owen, C. A., Jr., 394 Owen, E. E., 151, 154, 165, 292

Pader, E., 226 Page, R. G., 388 Palmer, R. A., 77 Panke, W. F., 38 Papac, R. J., 79 Papper, S., 245 Papper, S., 245
Parrish, A. E., 164, 282
Parrish, D., 127
Parson, W., 149
Patch, M. J., 57
Patterson, J. L., Jr., 136 Patterson, M., 154, 157 ratterson, M., 154, 157
Payne, M. A., 35
Pearce, C. W., 16
Pearce, M. L., 98, 300
Pearson, C. M., 298
Pechet, L., 15
Pelan, J. F., 72
Pelc, S. R., 126
Pergz. Santiago, F. 156 Perez-Santiago, E., 156, 261 Perry, S., 95 Perkins, W. H., 133 Peschel, E., 162 Peters, J. M., 96 Peters, J. H., 277 Petersdorf, R. G., 41, 160 Peterson, C. R., 96 Peterson, J. E., 105 Petrakis, N. L., 76, 79, 91 Pettigrew, J. D., 72 Phelps, P., 120 Pierce, J. A., 170, 300 Pileggi, V. J., 69 Pineda, E. P., 35 Pinney, C. T., 128 Pirani, C. L., 285 Pisciotta, A. V., 209, 384 Pitcairn, D. M., 101 Poe, R., 390 Pollak, V. E., 279, 285 Polimeros, D., 281 Pollycove, M., 90 Pollycove, M., 90 Pombo, T., 18, 222 Porter, P., 45 Portwood, R. M., 275 Pote, W. W. H., Jr., 64 Potter, J., 306 Preedy, J. R. K., 157 Price, J. D. E., 77 Pringle, J. C., Jr., 210 Prior, J. T., 260

Rafferty, J., 71
Raisz, L. G., 24, 280
Ralston, L. A., 99
Ramirez, E., 249
Rapaport, E., 71, 101, 289
Rath, C. E., 212
Reaume, R. B., 98
Rector, F. C., Jr., 273, 275
Reddy, W. J., 27

Redeker, A. G., 66, 71 Reed, E. B., 66 Reed, L., 213 Reed, L., 213
Reemtsma, K., 387
Rees, S. B., 276
Regan, T., 388
Reichlin, M., 386
Reichlin, S., 242, 389
Reilly, W. A., 84, 125
Reisner, E. H., 14
Reiss, E., 389
Relman, A. S., 30
Respess, J. C., 156
Revnolds, E. W., Jr. Reynolds, E. W., Jr., 220 Reynolds, T. B., 71, 108, 117 Ribble, J. C., 41 Rich, S. B., 221 Richards, J. B., 23, 245 Richardson, D. W., 136, 281 Richman, H. G., 101 Rider, J. A., 81, 120 Rigas, D. A., 218 Riley, H. D., Jr., 159 Riley, V., 296 Rimer, D. G., 298 Rivkin, L. M., 59, 221 Robbins, J., 240 Roberts, K. E., 67 Robin, E. D., 47, 276, Robinson, R. R., 162, 274 244 Robinson, R. W., 20 Robinson, T. W., 122 Rodensky, P. L., 234 Rodnan, G. P., 307 Roehm, D. C., 144, 148 Rogers, L., 222 Rohn, R. J., 216 Rosenbaum, M., 270 Rosenbaum, M., 270 Rosenberg, D. G., 168 Rosenblum, R., 228 Rosenthal, W. S., 251 Ross, J., 12 Ross, J., Jr., 20, 228, 229 Ross, J. C., 396 Ross, R. S., 282 Rosston, B. H., 121 Rousselot, L. M., 38 Rowe, G. G., 229, 387 Rowley, P. T., 45 Rubenstein, E., 61 Rubin, C. E., 120 Rubini, J. R., 68 Ruegsegger, P., 223 Ruffin, J. M., 151 Ruskin, A., 154 Ruskin, B., 154 Rutenburg, A. M., 35 Ryan, M. J., 285

Sabine, J. C., 90 Sachs, M. L., 62 Sackner, M., 239 Saffran, J., 44 Sakaguchi, R., 171 Salazar, E., 230 Salisbury, P. F., 98, 100 Saltzman, H. A., 306 Samet, P., 302 Samson, W. E., 97 Sanders, C. A., 25, 36 Sandweiss, D. J., 391 Sanford, J. P., 158, 167, 267 Santini, R., 261 Sapp, O. L., III, 153 Sasse, L., 388 Saxton, G. A., Jr. Saxon, L., 245 Schaefer, L. E., 23 70707070

Sasse, L., 388
Saxton, G. A., Jr.
Saxon, L., 245
Schaefer, L. E., 23
Schaffner, G., 211
Schedl, H. P., 253
Scher, A. M., 60, 97
Scherbel, A. L., 395
Schmidt, J., 199
Schneckloth, R. E., 21
Schneider, R. A., 170
Schobinger, R., 299
Schoch, H. K., 395
Schoen, E. J., 76
Schreiner, G. E., 298, 299
Schrodt, G. R., 213

Schrodt, G. R., 213 Schubert, M., 306 Schucher, R., 20 Schulman, J., 159 Schultz, I., 270 Schumacher, L. R., 267 Schwab, P. J., 217 Schwartz, H. C., 89 Schwartz, I. L., 251, 287 Schwartz, R. 39

287
Schwartz, R., 39
Schwartz, T. B., 393
Scoggins, J., 169
Scott, J. B., 386
Scott, J. L., 56
Scott, K. G., 125
Scribner, B. H., 113
Scriver, C. R., 305
Scudamore, H. H., 394
Sealy, W. C., 132
Seaman, A. J., 94
Searle, G. L., 84, 125
Seegers, W., 262
Segal, S., 250
Segaloff, A., 315
Seki, M., 38, 200
Seldin, D. W., 172, 273, 275

275
Selenkow, H. A., 39
Selin, M. J., 74, 124
Sellers, T. F., Jr., 159
Selzer, A., 101
Semba, T., 76
Sessions, J. T., Jr., 153
Sevelius, G., 59, 222
Severinghaus, J. W., 83
Shafer, A. W., 91
Shafrir, E., 250
Shanberge, J., 15
Shanbrom, E., 56, 57, 215

215 Shapiro, A. P., 284 Sharp, J. T., 228 Sheehy, T. F., 106 Shelley, T. F., 249, 254 Shepherd, J. T., 387 Sherlock, S., 392 Shideman, F. E., 166 Shoemaker, W., 25 Short, R. V., 157 Shoulders, H. H., Jr., 150 Shulman, N. R., 216 Shuman, C. R., 28 Sideman, M. B., 113 Sieker, H. O., 301, 306 Sieker, H. O., 301, 306 Sigrest, M. L., 393 Simkin, B., 107 Sims, E. A. H., 43 Sinclair, J., 154 Siperstein, M. D., 256 Sipple, J., 305 Sisco, B. A., 43 Sise, H. S., 212 Skahen, R. 121 Sise, H. S., 212
Skahen, R., 121
Skinner, N. S., Jr., 144
Skinner, W., 145
Skoog, W. A., 95, 96
Slade, C. I., 112
Sleisenger, M. H., 37
Slingerland, D. W., 24
Sloan, R. D., 134, 152
Slotkin, M. B., 137
Small, W., 210
Smith, C. W., 60
Smith, J. E., 260
Smith, J. E., 260
Smith, J. R., 172
Smith, J. R., 172
Smith, K. U., 166
Smith, L. H., Jr., 14 Smith, L. H., Jr., 14 Smith, W. O., 162, 276, 392 Smulyan, H., 304 Snyder, D., 276 Snyder, D. D., 61 Soanes, W. A., 111 Sobel, H., 113 Sobin, S. S., 106 Sokal, J. E., 288 Solomon, S. P., 258 Soudamore, H. H., 404 Sowell, R. C., 267 Spaet, T. H., 13 Spagnuolo, M., 50, 308 392 Spaet, T. H., 13 Spagnuolo, M., 50, 308 Spiotta, E. J., 164 Spiro, H. M., 258 Spitzer, J. J., 225, 255 Spivack, A. P., 268 Spodick, D. H., 293 Stanbury, J. B., 244 Starkweather, W. S., 395 395 Starnes, W. R., 308 Starr, A., 101, 102 Starr, P., 68 Staugas, L. W., 300 Stein, M., 301 Stein, S. W., 232, 290 Steinberg, D., 250 Stengle, J. M., 132

306

5, 36

391

, 167,

153

3

97

95

., 21 170

298,

., 267 7

39

51,

393

113 05

., 394

4 125

2, 273,

124 ., 159

r., 153 222 W., 83

39

9

3

Sterling, K., 242
Sterling, R. E., 66
Stevenson, I., 375
Stevenson, T. D., 213
Stewart, C. J., 111
Stickel, D. L., 132
Stillerman, M., 267
Store, A., 397
Storer, E. H., 55, 67, 70
Strandjord, P. E., 224
Strawitz, J. G., 288
Streeten, D. H. P., 253
Sturgeon, P., 93, 122
Stutman, L. J., 225
Stutzman, L. J., 225
Stutzman, L., 279
Sugarman, M. H., 391
Sullivan, J. F., 209
Sullivan, J., 392
Sullivan, R. D., 46
Sulya, L., 165
Susman, N., 386
Swader, J., 81
Swisher, S. N., 208
Szanto, P. B., 390

Talbert, P. C., 245, 389
Tamagna, I. G., 140
Tanaka, K. R., 92
Tanton, J., 243
Taranta, A., 49
Taylor, I. M., 138
Telfer, N., 114
Tellem, M., 266
Teng, H. C., 172
Teschan, P. E., 280
Theologides, A., 395
Thieme, W. T., 89
Thomas, E. D., 214, 215
Thomas, H. D., 233
Thompson, D. P., 393
Thompson, D. P., 393
Thompson, J. H., Jr., 394
Thorn, G. W., 27
Ting, E. Y., 47, 303
Tishkoff, G. H., 15
Tomita, K., 240
Toronto, A. F., 100
Torosdag, S., 219, 221, 239
Torres, G. E., 303
Towbin, E. J., 133
Trakas, A., 24
Tranquada, R., 110
Traver, H., 95
Travis, D. M., 47, 305
Trombly, P., 49
Trout, D. L., 256
Truax, W. E., 203
Tuckman, J., 285
Tupikova, N., 108

Turner, D. R., 294 Turner, J. D., 230 Turner, L., 291 Turner, M. D., 147, 163 Tuttle, S. G., 117 Tyler, F. H., 113 Tyor, M. P., 151, 154, 292

Uhley, H. N., 59, 105, 221 Ulloa, A., 173, 308 Ultman, R., 294 Unger, A. M., 281 Uyeyama, K., 75

Valentine, W. N., 92 VanArsdel, P. P., Jr., 69 Vander Ark, C., 220 Vanderlaan, W. P., 109 Vaughan, M., 250 Vautrin-Gardinier, M., 294 Velasco, H. A., 288 Verhey, J. W., 309 Verner, J. V., Jr., 165 Vester, J. W., 288 Volwiler, W., 58, 114 von Kaulla, K. N., 72

Wagman, I. H., 297 Wald, N., 269 Waldhausen, J. A., 20 Waldhausen, J. A., 20 Walker, G., 115, 119 Walker, W. G., 282 Ward, J. R., 123 Warner, E. G., Jr., 283 Warner, H. R., 92, 100 Warner, R. R. P., 32 Warren, J. V., 135 Warren, K. S., 292 Wasserman, F., 234 Wasserman, L. R., 33, 217, 259 Waterhouse, C., 272, Watt, M. F., 164, 282 Webb, W. R., 139, 152, 155, 172 Webster, J. S., 245, 389 Weil, M. H., 271 Weinberg, A. N., 247, 250 Weinstein, H. G., 211 Weiss, W., 268 Weissbein, A. S., 143 Weissler, A. M., 237, 238 Weissman, G., 306 Welt, L. G., 274

Wener, J., 20
Wenger, J., 294
Wertlake, P. T., 105
West, J. W., 224
West, L. M., II, 73
West, M., 207
Westort, C., 114
Whedon, G. D., 135, 143
White, H., 392
White, L. P., 224
Whitehead, W. O., 26
Whitney, R. W., 69
Wick, A. N., 109, 111
Wiegand, B. D., 71, 289
Wiggins, R. A., 66
Wilcox, A. A., 105
Wilhelm, J. E., 385
Wilk, R. B., 104
Wilkinson, J. F., 208
Willett, F. M., 66
Williams, R. C., 265
Wilmoth, T. A., 260
Wilson, E. C., 156
Wilson, W. W., 80
Windom, R. E., 158, 267
Winsor, T., 103, 104
Winston, A. L., 16
Wintrobe, M. M., 56, 89, 92
Wirts, C. W., 261
Witt, F., 242
Wohl, M. G., 18
Wolf, S., 151, 170
Wolma, F., 154
Womack, N. A., 153
Wong, H., 200, 205
Wood, D. A., 79
Wood, P. A., 58, 114
Woodward, E., Jr., 232
Wright, H. K., 394
Wright, J., 106
Wright, R. R., 84, 120
Wroblewski, F., 217, 295, 296
Wyngaarden, J. B., 257
Wyso, E. M., 281
Wysor, W. G., Jr., 153

Yamauchi, H., 125 Yamazaki, E., 24 Yoffee, H. F., 272 Young, D., 17 Young, D. T., 138 Young, W. G., Jr., 132 Yu, P. N., 231

Zaltzman, S., 272 Zangwill, D., 45 Zimmerman, H. J., 207 Zucker, M. B., 211 Zurek, R., 18

SUBJECT INDEX

Acid

excretion, in rubidium and cesium-substituted rats, 30-31

fatty, effect of feeding, on arterial tissue cholesterol of rabbit, 141

Acidosis, 220-221

development of, 271 renal tubular, 165

respiratory, 172-173
effect of low-potassium diet
on renal response to, 42

ACTH

administration of, hyperresponsiveness of adrenal cortex after, 252-253 adrenocortical response to, in

adrenocortical response to, in rheumatoid arthritis, 308

effect of, for rheumatic fever, on 4-iodoantipyrine space, 69

role of, in regulation of plasma level of nonesterified fatty acids (NEFA) in man, 250-251

stimulation, plasma and urinary, 17-hydroxycorticosteroid levels during, 28-29

Addison's disease, water excretion in, 254-255

Adrenal activity, 147-148

Adrenal cortex

hyperresponsiveness of, after ACTH administration, 252-253

function of in dogs, 252

effects of radiation therapy on, 111

Adrenalectomy, effects of, on renal content of sodium, potassium and water in rats, 253-254

Agammaglobulinemia, bone marrow transplant in, 58-59

Agar, dextrose, culture of bone marrow on, 14

Albumin, effects of, on lipids in experimental nephrosis, 278-279

Aldosterone

action of, on renal sodium reabsorption in normal subjects, 274

antagonist, use of, as diagnostic aid in mineralocorticoid excess, 254

effects of, on renal content of sodium, water and potassium in rats, 253-254

Aldosteronism, primary, 28 effects of, on exchangeable component of body sodium, 253 Amines

organic, effect of, 218 sympathomimetic, peripheral vascular effects of, 237

Amyloidosis, secondary, serum complement levels in patients with, 265-266

Analysis, stop-flow study of urea excretion of dog

by, 274 during water diuresis, 273-274

Anemia
auto-immune hemolytic, in
chronic lymphocytic
leukemia and hypogammaglobulinemia, 209

hemolytic, 205-206 hypochromic, in adult responding to pyridoxine hydrochloride, 208

megaloblastic blood enzyme abnormalities

in, 207
folic acid in, 206-207
pernicious, due to intrinsic
factor inhibitor in
childhood, 90-91

Anesthesia, electrical, 147 Angina pectoris, effect of isoniazid on, 226

Angiocardiography, induced cardiac arrest as aid to, 103

Anhydrase, erythrocytic carbonic, inhibition of, in vivo, 54

Antibiotics, prophylactic use of, in burned children, 271

Antibodies

insulin binding, and insulin response in diabetics, 388

against nucleoprotein ex tracts, 40

Antigens, soluble, purification of, 161

Antiglobulin, labeled, study of lupus globulin factor detection and quantitation using, 264

Antiplasmin, human and lima bean trypsin inhibitor in therapy of fibrinolytic hemorrhage, 217

Anti-RBC antibodies, effects of,

Artery

coronary calcific, 60 sinus node, ligation of, 387 Arteriosclerosis obliterans, use of relaxin in treatment of, 234-235

Arthritis, rheumatoid, laboratory diagnosis of, 173 Assay, in vitro, of human gas-

tric juice, 259 Asterixis, in non-hepatic disorders, 297

Atherosclerosis development of, effect of stress on rats in, 105 effect of aortic constriction on, 61

B

Atropine, effect of, on flow-time pressure relationships in central and peripheral circulations, 237-238

A-V conduction, gross visualization of, by radioautography and staining, 221

Ballistocardiograph, design of clinical ultra low frequency, 98-99

Bence-Jones, protein metabolism of, 76 Bicarbonate reabsorption, mech-

anism of, 76

Bile duct, distal common, obstruction of, diagnosis of with radioiodinated rose bengal, 295

Rilirubin

excretion, studies of, in normal and Gunn's rats, 291

in human bile, identification and analysis of nonglucuronide conjugates of, 34

Biosynthesis

pyrimidine, in leukemia, 14 studies on, of monounsaturated fatty acids, 31

Bleeding cause of, 212-213

gastrointestinal, percutaneous splenic pulp manometry, in diagnosis of, 38

uterine, coagulation studies of patients with, 94-95

Blood ammonia

concentration of portal and peripheral, 292 dynamics of, in hepatic en-

dynamics of, in hepatic encephalopathy, 118 in differential diagnosis of

cells, binding of di-iso-propylfluorophosphate by, 211-212

changes in, and exposure to CO₂, 30

coagulation, effect of platelet fractions on, 212

flow

altered pulmonary, 282-283 coronary, 59 autoregulation of, 60

determination of by indicator dilution technique, 397 by radioactive surface counting technique,

electromagnetic flowmeter for measuring, 104-105 femoral-artery, hypertonic solutions, 387

Br

hepatic

ion

ime

ips

er-

238

za-

og-

221

of

fre-

ism

ech-

oh-

osis

ated

nor-

ats.

tion non-

ates

4

tur-

eous

ano-

of,

es of

and

en-

s of

pro-

by,

e to

telet

2-283

ution

rface

ique,

neter

4-105

tonic

5

Blood (Cont'd) estimation of, 71 measurement of, 71

intestinal, effects of ar-terial, venous and arterio-venous occlusion on, 155

(BSF) and galactose techniques for, 392

renal, effect of arterial, venous and arteriovenous occlusion on, 163 uterine and fetal, 121 velocity of, 227-228

human, prolactin activity in, 107

infusion, effect of, in posthypothermic circulation of chloralosed dog, 235-236

iodide in, of patients with malignancy, 125

levels, isoniazid, genetic factors influencing, 124 lipid fractions, response of, to (ACTH) stress, 68

pO2 and pCO2 determination, electrodes for, 83 pressure correlates, in hyper-

tension, 235 proteins, effect of irradiation on, in vivo and in vitro,

219 rabbit, stored, effect of inosine on, 91

studies, adrenal, 146 venous

arterial and hepatic, amino acid patterns in, 117-118

temperature of, 61 vessels

of dog forelimb, effect of potassium on, 396

normal and arteriosclerotic, thromboplastic properties of, 213-214

volume central, interpretation of, 227

circulating and cardiac output, measurement of, 386

hepatic, measurement of, in dogs by indicator dilution technic, 290-291

sequestration, homeostatic responses to, in normal pregnancy, 78

Bohr effect, 227 Bone marrow

autogenous, infusion of, 93 autologous, infusion of, after supralethal irradiation in dogs, 215

culture of, in dextrose agar, Bromsulfalein

effects of, in cardioportal circulation time, 119

evidence for metabolism of, 118-119

Bronchospasm, effect of, on pulmonary-diffusing capacity, 302-303

Bundle branch block, right, 193

Calcium

diffusable, renal clearance of. 246

effect of, on antidiuretic ac-tion of vasopressin, 272 intravenous, effects of, or cirrhosis of liver, 293

Cancer

advanced, toxic manifestations of 5-fluorouracil in, 395

human, value of 5-fluorouracil in, 46

with, serum lactic patients dehydrogenase activity in, 395

Carbohydrates, gall bladder, in cholelithiasis, 260

Carbon dioxide "alveolar,"

measurement of. 301

exposure to, 30 influence of mechanical factors on respiratory work and ventilatory responses to, 127

inhalations, ventilatory sponse of SCUBA div-ers to, 127

role of, in regulation of pulmonary hemodynamics, 301

tensions, high urinary, 275-276

ventilatory responses to, 127-128

Cardiopulmonary function, effect of chest strapping on, 84

Carotene, serum, and carotene-loading test, 401 Cartilage, dissolution of, by

papain, 306 Catheterization, left heart,

trans-septal, 229 Cavography, trans-spinous, 299-300

CCL poisoning, effect of, on glucuronyl transferase activity in rat tissue, 401

Cell, composition, in acute hypotonicity, 272-273

Central nervous system arousal state of, 135-136 effects of thyroid hormone on

maturation of, 142 Chloramphenicol, in blood of patients with renal or hepatic disease, 268

Chlorpropamide, 26-27 in diuretic patients, 110 Chlorthiazide (Diuril), antihy pertensive effect of, 82 Cholelithiasis, gall bladder carbohydrates in, 160 mucoproteins in, 153

Cholesterol

and fatty acid synthesis in sciatic nerve, 81 serum, alterations in, 148-149

synthesis of in arteries of normal and diuretic rats, 256 and fatty acids in peripher-

al nerve, 167 Cholinesterase, inhibition of, 258 Cirrhosis

ascites, diuretic and steroid therapy in, 37 with diuretic and ethyl biliary, treated with

linoleate, 119-120 dietary, effect of, on glucuronyl transferase activity in rat liver, 391

edema of, effects of 17-spirolactosteroids, 294

Circulation

prolonged closed-chest extracorporeal, without oxy-genation, 226-227 nary, red cell and

pulmonary, plasma mixing in, 304-305

Clotting, abnormalities, 2550ciated with cryofibrinogenemia, 385

CO (DL), breath holding pulmonary diffusing capacity for, 396

Coagulation, studies of, in pa-tients with uterine bleeding, 94

Cobalt

antithyroid chloride, acute effect of, 63 radiation, effect of, in healing

tooth socket, 134-135 Colitis, ulcerative

food hypersensitivity in, 120 idiopathic, hydrocortisone absorption in patients with, 157

Collagen, in human lungs, 300-301

Coma, differential diagnosis of, blood ammonia in, 392

Communication, as problem of science, 315-317

pulmonale, produced in dogs, by pneumothoraces, 233

Corticoid excretion, effects of cold and irradiation on, in guinea pigs, 113

Corticosteroid, effect of, in shock due to endotoxin, 271

Cortisol, isolation of, from a pheochromocytoma, 29

Cortisone, role of, in inhibition of hepatic insulin binding during operative stress, 145-146

CR51, in vitro uptake of, by hu-

El

Ele

Elli

Em

Em

Em

Em

p

p

Enc

Enc

Enc

e

S

Ene

Enz

Epi

EP

Ery

p

S

t

in

iı

6

a

Eth

Eth

Eth

Ery

Est

Ery

h

CR51 (Cont'd)

man platelets, 210-211 Cretinism, incidence and classification of, 243-244

Cretins, normal mothers of, latent thyroid defect in,

Cryofibrinogenemia, clotting abnormalities associated with, 395

Cryoglobulin

precipitation, by cold, preven-tion of, 217-218 studies of, 218

Cycloserine, treatment of urinary tract infections with, 123

Cryofibrinogenemia, 134

action of, 111 administered, 111

effect of, on human intermediary metabolism, 110-111

Deaner, 148 Dehydrogenase

deficiency of, biochemical genetics of, 89-90

isocritic release and fate of, following myocardial infarction, 224

lactic, release and fate of, following myocardial infarction, 224

Denervation, effects of, on glucose uptake and insulin sensitivity of rat diaphragm, 146

Deoxyuridine, incorporation of, 207-208

Depression, postirradiation hematopoietic, treatment of, 93-94

Dexamethosone, metabolic ef-fects of, 112-113

Dextran

effects of, on lipids in experimental nephrosis, 278-279

vascular fragility in hemostatic defect produced by, in hamster, 94

Disease

bone, intravenous calcium retention test in, 135 celiac, intestinal pathology of,

120

cerebral, pathogenesis of persistent hyponatremia with water retention in, 273

chronic heart, 304

chronic pulmonary, rena hemodynamics in, 306 congenital heart, sodium excretion in, 282-283

connective tissue, immunologic studies in, 121-122

coronary artery clearance of fatty acids in

young males with, 225 evaluation of, with paper electrophoresis of serum proteins, 138

serum triglyceride radioactive fat tolerance studies in, 225-226

estimation of hemolytic, erythrocyte survival time in, 90

hepatic

studies on lipoprotein lipase in, 291

use of antialdosterone compound for fluid reten-tion in, 37-38

Hurler's, role of reticuloendothelial system in, 216-217

hyaline membrane, 128-129 induced, with parental strain lymphoid cells, 121

lung, 304

Milroy's, genetic and physiologic studies of, 263 neoplastic, chemotherapy of, 79

nonrheumatic, latex fixation in, 49

nutritional liver, study of small intestinal mucosa in, 294-295

parathyroid, phosphate reabsorption in, 389

pulmonary, reactant to hu-man lung in patients with, 265

renal

circulating anti-human kidney antibodies in, 194 clearance of proteins in, 282

hypermagnesemia, renal factors responsible for, 162-163

polycystic, 394 test for, 42

sickle cell, concentrating defect in, 281

staphylococcal, epidemiologic studies of, 159

summer febrile, caused by group B coxsackie viruses, 270

thyroid, auto-immunity in, 39 Diabetes mellitus

oral diethanolamine in treatment of, 144

plasma non-esterified fatty acids and total blood ketones in, 251

use of chlorpropamide in patients with, 144-145 Diamox, effect of, 292-293

on plasma and urine during respiratory acidosis, 172

Diarrhea, laxa 156-157 laxative produced, Diethanolamine (DEA), 148

Diets, long term, low fat, low protein, effect of, 255 Digitalis levels, effect of, on

rubidium uptake of red blood cells, 103

Disorders

hematologic, clinical evaluation in, 57-58

lymph node, cytologic diagnosis of, by needle as-piration, 215-216 myeloproliferative, humoral

factors in, 385 parathyroid, 246-247

Diuresis

mercurial, impairment of re nal-concentrating ability during, 280-281

solute, during postoperative antidiuresis, 394 water, stop-flow analysis during, 273-274

Diuretics, hepatic coma in, 292 Drugs

hemolysis-inducing, nism of action of, 11 and tracers, penetration into

human ovarian follicular fluid of, 72

D-thyroxine, in vitro metabolism of, 240

pituitary, Dwarf, metabolic changes produced by human growth hormone (Li) in, 107

Dysproteinemia, clotting defects in, 95-96 Dyscrasias, blood, para-toluene

sulfonic acid precipitation test in, 57

Edema, red cell, electrolytes in patients with, 287 Editors, from point of view of

author, 4-5 Education, pre-professional, search for maturity in,

177-183 Elastin, in human lungs, 300-

Electrocardiogram

as genetic index, 262-263 and myocardial oxygen tension, lack of correlation between, 98

Electrolyte

balance, effect of laxativeproduced diarrhea on, 156

red cell, in patients with edema, 287 tissue, changes in, and ex-

posure to CO:, 30 Electronic computers, use of, in medical research, 300

Electrophoresis paper

in chronic congestive failure, 20

of porphyrins, in hepatic porphyria, cutaneous 66-67

of serum proteins, evaluation of coronary artery disease with, 138

Electrophoresis (Cont'd) starch block, 91-92 Elliptocytosis

hereditary, 202-203 hemozygous, 202

Embolism, acute pulmonary, di-agnosis of, 47-48 Embolization, experimental, using clots labelled with Cr⁵¹, 21-22

Emotional changes, 1-3

Emphysema

be

a-

al

il-

ve

ır-

92

a-

ito

eu-

sm

lie

by

ne

cts

ene

ita-

in

of

nal.

in,

100-

ten-

tion

ive-

on,

with

ex-

f, in

300

fail-

oatic

yria,

lua-tery

patients with, pulmonary dif-fusing capacity in, 406 pulmonary, intrapulmonary mixing in, 303

Endocarditis, bacterial, ear lobe phagocytic monocyte in, 160-161

Endocrine function, induced by phenothiozine derivative, 148-149

Endotoxin

effect of bacterial, on adrenal medullary function, 158 shock due to, effect of corticosteroid in, 271

Enema, barium, fluid and elec-trolyte changes in, 391 Enzymes, platelet, studies on,

211 Epithelium, rat tracheal, meth-ionine turnover by, in vitro and in vivo, 126-127

EPN, and malathion, anticholinesterase properties of, 81-82

Erythrocytes

activity of, glucose-6 phosphate dehydrogenase, 12-13

Cr51- labeled, 132-133

human, potassium transport in, 287

production and life span of, measurement of, 11 sickle-trait, in vivo behavior

of, 203 stored sickle cell trait, posttransfusion survival of, 203-204

treated in vitro with lead chloride, 384

Erythrokinetics

in chronic hypoxemic -pulmonary emphysema, 84 in sarcoidosis, 132 Erythropoietin, 201-202

Estrogens effect of, on hypercholesterolemia with diabetes mellitus, 64

and progesterone levels in fetal and maternal plasma at parturition, 157-158

Ethanol, dialysance of, 299 Ethyl alcohol, intoxication by, method for treatment of, 299 Ethyl linoleate, primary biliary

cirrhosis treated with,

Euthyroidism, 62-63 Exercise

effects of

on glucose utilization in man, 25 on plasma NEFA level, 256-

pulmonary compliance during,

in chronic heart or lung disease, 304

reflex venomotor, alterations during, 238

Fat

emulsion, "anhydrous," evaluation of, 67

mechanism of gastric inhibi-tion by, 259-260 prefeeding of, 151

Fava beans, influence of, on red blood cells, 206

Federation, demon of, 313-314 Ferrokinetics, in sarcoidosis, 132 Fever, antigen-induced, 263-264 Fibrillation, ventricular, pharmacologic aspects of, under hypothermia, 18

Fibrosis, , cystic, of pancreas, 128-129

Fluid, cerebrospinal, in jaundiced patients, 168

5-Fluorouracil, toxic manifestations of, in advanced cancer, 395

auricular, mechanism Flutter, of, intracardiac and electrocardiographic observations on, 221-222

Galactosemia, in mental defici-

ency, 257 Galactosuria, in mental deficiency, 257

Gallogen, 148

Gamma globulin anti-lactic dehydrogenase, 295-296

localization of, in human kidney, 277-278

permeability of synovium to, 307-308

prevention, of respiratory dis-ease, 270-271

and prophylactic use of antibiotics, in burns, 271

quantitation of, in human serum by immuno-precipitation, 58

Gastric acid, inhibition of, by glucagon, 258-259 Gastric juice, and saliva, inhibi-

tory activity of, 392 Gastritis, atrophic, experimental production of, 70

Gastroesophageal reflux, intra-Gastroenterostomy, 152 luminal pressures in,

117 pallidus, coagulation technic of, 167 Globus

Glomerulonephritis, unilateral. in dog, 277

Glucagon, effect of, on homeostatic balance of hepatic and peripheral carbohydrate metabolism, 25-26

Glucose-6-phosphate biochemical genetics of, 89 dehydrogenase, 11

Glucose

tolerance, effect of physical conditioning on, 143-144

utilization in man, effect of exercise on, 25

Glucosamine HCL, 148

Glycerin, intravenous, hemoglobinuria following, 55

Glycosides cardiac, effect of potassium on

nitrogen action of, 19-20

digitalis, pressor effects of, 20 Goiter

colloid nodular, cause of, 244 congenital, serum and thyroid protein abnormalities in, 244

Granulocyte kinetic models, 92-93

Graves disease, 23

Glucagon

action of, unrelated to carbohydrate metabolism, 251-252

effect of, on release of unesterified fatty acids (UFA) from adipose

tissue, 250 inhibition of gastric acid and pepsin output by, 258-259

role of, in regulation of plas-ma level of non-es-terified fatty acids (NEFA) in man, 250-251

Glucosamine, metabolism of, in connective tissue, 307

Haptoglobins

serum, 92

in hemolytic diseases, 204-205

in sickle cell disease, sickle cell trait and negroes, 204

Heart

disease

arteriosclerotic triglycerides in, 60-61

congenital, genetic basis for, in rat, 106

valvular, pulmonary, left heart and arterial volume in, 230-231

effect of heart-lung bypass on, 100-101

failure acute, antibiotic prophy-

[I131-

Im (

lal

lal

Ions,

Ipro

Iron

ab

de

ex

Isoir

Ison

eff

hu

Isop

Jaun

Kana

Keto

Kidn

hu

as

tis

Koro

Lact

Left

Lesio

of

Lead

int

rig

of

Leuc

Heart (Cont'd)

laxis in patients with, 41

congestive

bioenergetic studies in, 19 effects of adrenocortical steroids in, 233-234 pyridoxine deficiency in,

18-19 human, visualization of conduction system of, 59

mammalian, heart pump analogous to, 226 muscle, infarcted, salvage of,

min) therapy, 223-224 rate, effect of

on cardiac and arterial pressure in dogs, 100

by fibrinolytic (plas-

on end-diastolic ventricular pressure-volume relationships, 228

volume, left, in valvular heart disease, 230-231

effect of coronary weight, artery ligation on, 138 Helium, mixing of, during rebreathing, 171

Hemochromatosis, serum protein, glycoprotein and radioiron binding in, 200

Hemodialysis, in treatment of acute renal failure, 280 Hemodynamics, during induced cardiac tamponade in

man, 228 Hemoglobin

formation, influence of exogenous iron on, in premature infant, 53

rabbit, relationship between electrophoretic motility and in vivo age of, 201

Hemoglobinuria, gross, following intravenous glycerin, 55

Hemophilia, 212

gastrointestinal, Hemorrhage, 152

Hemostatic defect, vascular fragility in, 94

Heparin

in burns, 169

effect of, on thromboplastin generation, 15

sublingual, effect of, on lipid partition and radioactive fat tolerance, 255-

Histamine

effect of, on connective tissue in rat, 395

role of, 216 Hormones

adrenal cortical, dose of, and peptic ulcer, 260

adrenocortical, 65-66 antidiuretic

effect of, on permeability of toad bladder, 44 release of, 36

human growth, 62

thyroid, effect of, on maturation of central nervous system, 142
Hydrochloric acid, inhibitor, 151-

152

Hydrocortisone

absorption in patients with idiopathic ulcerative colitis, 157

effect of administration of, on action of antidiuretic hormone (ADH), 111

of, in regulation of plasma level of nonesterified fatty acids (NEFA) in man, 251

17-Hydroxycorticosteroids, free and conjugated, 147

Hypercalciuria, chronic, effect of, on renal conservation of sodium and water, 161-162

Hypercapnia

acute, effects of buffer amine on, 302 role of, in control of cardiac

output, 136-137 Hyperkalemia, 220-221

gastrointestinal absorption of rubidium-86, 114 Hyperlipemia

effect of, on lysis of venous thrombi, 214

mechanisms of, in experience mental nephrosis, 44 experi-

Hyperparathyroidism as cause of hypercalcemia as-sociated with hyperthy-roidism, 245-246

propylthiouracil effect on, 389 Hypertension arterial, iproniazid therapy of,

140-141 blood pressure correlates in, 235

oligemia, basic to chlorothiazide action in, 21 in rat, 284

Hyperthyroidism, creatinine metabolism in, 143 Hypertrophy, right ventricular,

study of, 233

Hyperventilation and exercise, comparison of

cardiac output responses to, 136 myocardial depolarization by,

97-98 pulmonary compliance during, in chronic heart or lung

disease, 304 reflex venomotor alterations during, 238
Hypogammaglobulinemia,

219 Hyponatremia, pathogenesis of,

with water retention in cerebral disease, 273 Hypophosphatasia, metabolic ob-servation in, 24-25

Hypoproteinemia, idiopathic, 392

Hypotension, in nephrotic syndrome, 125

Hypothermia, ventricular fibril-lation under, pharma-cologic aspects of, 18 Hypothyroidism, 62-63

Hypotonicity, acute, renal in-sufficiency and cell composition in, 272-273

Hypoxia, arterial, in cirrhosis of liver, 36-37

Immunoprecipitation, quantitation of gamma globulin in human serum by, 58

Indocyanine green clearance, 290 excretion of, 71

hepatic clearance of, 289-290 Infection as cause of hypersplenism,

205-206 and 1957 influenza, 159-160 postsplenectomy, severe, in in-fants and children, 122

staphylococcal, 159 streptococcal, 49

systemic fungus, 403 urinary tract, treatment of, with cycloserine, 123 Influenza, diagnosis of, 75 Inosine, effect of, on stored rab-

bit blood, 91 Insulin

effects of, on metabolism of white blood cells from normal and diabetic subjects, 247

endogenous secretion of, on hepatic binding, 248 intraportal, 249

labeled, hepatic binding of, 145 resin binding of, in serum, 26 resistance, serum insulin-like activity in, 63-64 secretion, 145

Intestine, small rat, effect of intrinsic factor on, 32-

Intoxication

digitalis, recent observation on, 234

massive, method for treatment of, by methyl alcohol,

salicylate, studies of, in dogs, 298

ntrinsic factor, action of, 206 Iodide, amount of, in blood of patients with malignancy, 125

Iodine intrathyroidal metabolism of effect of antithyroid substances on, 24

organic binding of, 244 albumin metabolism, analysis

of, 114-115 diodrast hepatic transport of, 34-35 measurement of residual I131 (Cont'd)

81]

n-

il-

ıa-

in-

m-

sis

lin

58

90

sm,

0

122

of.

ab-

of

rom

on

145

26

like

of

32-

tion

nent

ohol,

logs,

206

d of

alig-

n of, yroid

lysis

34-35

idual

3

urine with, 286-287 labeled triiodothyronine

242-243 labeled triolein, absorption of,

erythrocyte uptake of,

261 Ions, mobilization of, from bone

mineral in vitro, 284 Iproniazid, antituberculous effect of, 75

absorption

in hematologic states, 199 physiology of, 200-201 deficiency, aconitase activity in, 199, 200

exogenous, influence of, hemoglobin formation in premature infant, 53

Isoimmunization, maternal, 13-14

Isoniazid

effect of, on angina pectoris, 226

human metabolism of, 393 Isoproterenol, use of, 99-100

Jaundice, studies on lipoprotein lipase in, 291

cin, ototoxicity and nephrotoxicity of, 73 Kanamycin, Ketosteroid excretion, effects of cold and irradiation on, in guinea pig, 113

Kidney

human, localization of gamma globulin in, 277-278 as source of blood ammonia

in patients with liver disease, 292-293

resting and hyperventilated cirrhotics, 154-155

tissue. chemical composition of, in potassium depletion and nephrocalcinosis, 275

Korotkoff sounds, observations on, 235

Lactic acid, in uric acid and excretion of toxemia of pregnancy, 279

Left ventricular regurgitation, metered, prediction of, 102

Lesions, renal of lupus glomerulonephritis, effect of prednisone on, 285

ın pre-eclampsia, 279-280 Leads

intracavitary, limb lead elec-trocardiographic alterations from, 220 precordial, rSr deflec-

tions in, 219-220 of temporal lobe structures, 1-3

Leucine aminopeptidase, enzymological and clinical evaluation of, 393

Leukemia

acute, intrathecal methotrexate, in treatment of CNS complications of, 93

plasma cell, studies on, 133 pyrimidine biosynthesis in, 14 tuberculin reaction in, 266

Leukocytes

normal and leukemic in, 56 oxidation-reduction (redox)

activity of, 384 polymorphonuclear, metabolic dependence of potasreaccumulation sium by, 287-288

Leukomycin, 268 Leukopenia, 218-219

Lipase, lipoprotein, after biliary obstruction, 390

Lipemia, postprandial, limitation of myocardial oxygen consumption in, 388

Lipids

circulating, 23-24 effects of dextran, albumin polyvinylpyrroliand done on, 278-279

in vitro synthesis of, 149 plasma, extractable, 115 serum, variation in, during mental and emotional

stress, 105 Lipoprotein lipase, studies on, in hepatic disease and jaundice, 291

Liver

acute massive necrosis of, in Laennec's cirrhosis, 294 central necrosis of, 35

cirrhosis of antidiuretic hormone in, 36 arterial hypoxia in, 36-37 effects of intravenous cal-cium in, 293

hyperventilation, 36-37 pleural effusion in, 38

therapy of refractory ascites in, 71-72 disease, serum β-glucuronidase in patients with, 35-36

excretory function of, 290 function studies, in chronic congestive failure, 20

isolated, quantitative physio-logic studies in, 288-289 normal and diseased, chemical and enzymatic studies of, 153-154

of rat, assessment of hexo-kinase activity in, 288 role of, in sulfonylurea hypo-

glycemia, 249-250 and serum enzyme activity, 154

L-triiodothyronine (cytomel), evaluation of, in geriatric patients, 243

Lungs physical properties of, effects

of lung elastin and surface forces on, 170-171 postmortem, Gough sections of, 128

volume, changes in, with obe-sity, 171-172

Lupus erythematosus cardiovascular involvement in, 62

patients with, antibodies to nucleoprotein extracts in, 264-265

Lupus factor, antiglobulin technics, in detection of, 40

Lupus glomerulonephritis, renal lesions of, effect of prednisone on, 285

Lung

collagen and elastin content of, 300-301

isolated, pressure volume studies in, 303-304 cysts, reactant to, in patients with

pulmonary disease, 265 Lymphoma, tuberculin reaction in, 266

Lysine, free, effect of, on potassium transport in human erythrocytes, 287

Lysis, nuclear, by lupus serum in absence of complement, 265

Lysozyme, release of, as indication of in vivo leukocyte injury by endotoxin, 41

Magnesium

renal excretion of, 162 renal tubular secretion of, in dogs, 276

urinary excretion of, in non-edematous subjects, 162 Malignancy, phenol precipitation to determine, 295

Manometry, percutaneous splenic pulp, in diagnosis of gastrointestinal bleeding, 38

Marrow, culture, short term, ferrokinetic studies in, 385 roentgenographic con-

trast, 224-225 Meningitis, chemical, "epidemic" of, 167-168

Mephentermine, administration of, effect of, in peripheral venous tone, 238-239

6-Mercaptopurine, effect of, on immune responses, and mercury-BAL Mercury, dialysis of, complex,

298-299

Metabolism body cholesterol, measurements of, in man, 256 of bromsulfalein (BSP), 118 calcium, in parathyroid and thyroid disorders, osteoporosis and Paget's disease, 246

Pe

Per

pH

Pha

Ph

Ph

Pho

Ph

Ph

Pla

ŀ

Pla

Pla

Ple

Pn

Po

Po

Metabolism (Cont'd) carbohydrate, 251-252 creatinine, in hyperthyroid-ism, 143

diseases of, treatment of, 148 electrolyte, effect of strophanthidine on, 42-43 glucose, salicylate effects on,

250 hepatic and peripheral carbohydrate, effect of glu-cagon on, 25-26

histamine, in human disease, 69-70

human hepatic intermediary effects of DBI on, 110 intrathyroidal, of iodine, effect of antithyroid substances on, 24

in vivo, of tritiated thymidine, 68

iodine, in hydatidiform male and choriocarcinoma, 79-80

of I131 labeled Bence-Jones protein, 133-134

strontium, in parathyroid and thyroid disorders, osteoporosis and Paget's disease, 246-247

of sulfobromophthalein (BSP) in humans, 119

in vitro, of d-thyroxine, 240 unesterified fatty acid, control of, by sympathetic nervous system, 116

Metahexamide, 249

Metaplasia, myeloid, treatment of with testosterone, 210

Methanol, dialysance of, 299 Methomoglobin, reduction of, 12-

13 effect of purine nucleosides on, 12

Methotrexate, intrathecal, treatment of acute leu-

kemia, 93 alcohol, method for Methyl treatment of, 299

Methyl-phenylpiperdylacetate (Ritalin), evaluation of, in geriatric patients, 83 Mitral commisurotomy, central circulatory changes ac-

companying, 101-102 Microscopy, fluorescence, for exfoliative cytology screening, 72

Mitral incompetence, estimation of, in dogs by isotope dilution technics, 231-

Mitral stenosis

development of pulmonary hypertension in, 101

effects of, on severe aortic stenosis, 232

Motivation, experimental studies in, 80-81 Mucoproteins, gall bladder in cholelithiasis, 153 Mucous membrane, function of, influence of variability of, in olfactory acuity, 170

Murmurs, cardiovascular, basic mechanism of, 231

Muscle, myotonic, neuromuscular, excitability of, 297

Myeloid metaplasia, 11 Myelopathy, produced by intraspinal injection of py-rimidine analogs, 395

Myelin sheath, nervous and connective tissue elements in formation of, 296-297

Myocardial infarction, 390 Myocardial oxygen, and electrocardiogram, lack of cor-relation between, 98

Myordil, effect of, on coronary sinus oxygen saturation, 388

Myxedema

diuretic response to water in patients with, 245 irreversible, with or without coma, 142-143

Necrosis, acute massive, of liver, in Laennec's cirrhosis, 294

Neomycin, malabsorption syndrome induced by, 33-34

Nephrocalcinosis, chemical composition of, 275

Nephrons, of diseased kidney, 277

Nephropathy, uric acid, production of, 279

Nephrosis

experimental, effects of dextran, albumin and polyvinylpyrrolidone in lipids in, 278-279

lipoid, triamcinolone therapy of, 78

Nerve, peripheral, synthesis of cholesterol and fatty acids, 167

Noradrenaline, effect of, in posthypothermic circulation of chloralosed dog, 236

Norepinephrine, parameters of effectiveness of, in hemorrhagic shock, 139 Neutropenia, neonatal, 13-14

Obesity

volume changes with, lung 171-172

respiratory control in, 305-306 Obstruction

pulmonary vascular, in Pickwickian syndrome, 305 respiratory tract, effects of, on ventilatory response to inhaled carbon dioxide in normal subject,

302

Occlusion

arterial, effect of, on intestinal blood flow, 155

arterio-venous, effects of, on intestinal blood flow,

coronary

acute peri-infarction block in, 223

experimental, nature of acute ST changes in, 97 venous, effects of, on intestinal blood flow, 155 Oligemia, basic to chlorathiazide

action in hypertension, 21

Osmolar clearance, as mechanism of gastric electrolyte secretion, 32

Oxidation, fatty, as affected by nutritional states, 116

consumption, studies in, dur-ing cardiopulmonary bypass, 101 myocardial availability of, 222

effect of stimulation of biliary system on, 222 utilization of, by rabbit liver,

Pancreas, cystic fibrosis of, 128-129

65-66

Pancreatectomy, effect of, on gastric ulceration in the Shay rat, 152

Pancreatic juice, human, trypsinogen, trypsin and trypsin inhibitor in, 117

Pancytopenia, 205-206 Panhypopituitarism, response to 3% saline solution, 240

familial periodic, 45-46 hyperkalemic, 149-150

Paraproteinemias, clotting defects in, 95-96
Parasite, uptake by, 394
Papain, dissolution of cartilage

by, 306 Parathyroid

activity, effect of, on in vitro exchange of bone calcium, 390

function, effect of, on serum phosphorus and phosphorus clearance during calcium infusion, 247

Parathyroidectomy, effect of, on distribution of radiocalcium in rats, 24

Patent ductus arteriosus, pulmonary artery pres-sure curves in, 228-229 Pathogens, urinary, factors af-

fecting drug resistance of, 160

Pelger phenomenon, 56 Pepsin output, 258-259 Penicillin, "fall out," 158 Peritoneal fluid, toxicity of, 155

d

k

al

n,

e-

16

Ir-

ry

22

il-

er.

28-

on

in

p-ind

117

240

de-

age

itro

cal-

rum

hos-

dur-

sion,

, on

adio-

pul-

pres-

-229

af-

ance

155

Peritonitis, tuberculous, 269-270 pH, effect of, on coronary perfusion rate and cellular sodium, potassium and water in isolated perfused rat's heart, 138-139

Phagocytosis, tosis, erythrocyte, in vitro studies on, 208-209

Phenmetrazine, cardiovascular effects of, 239 Pheochromocytoma, diagnosis

of, 237 Phosphate, and cholesterol, relationship between in serum, 67-68

Phosphatase, human leukocyte alkaline, 92

Phosphorylase, muscle, defect in, 298 Plasma

albumin turnover, studies of, 95

electrolyte values, in term and premature infants, 69 erythropoietin levels, in normal and azotemic rats,

386 granulocytic activity of, from normal and leukemic subjects, 93

hemoglobin-binding capacity of, 12-13 permeability factor of, 139 thyroxine turnover, factors

influencing, 242 Walden-Plasmapheresis, in strom's macroglobulinemia, 96

Platelet

defect, qualitative, in uremia, 212

depots, evidence for, 211-212 fractions, effect of, on blood coagulation, 212

Plethysmogram, study of, 104 Pneumonia, staphylococcal, 267-268

Polyvinylpyrrolidone, effects of, on lipids of nephrosis, 278-279

Potassium depletion

chemical composition of kidney tissue in, 275

separation of effects of and cold storage on erythrocyte potassium ex-change, 53-54

effect of on inotropic action of car-

diac glycosides, 19-20 small and large blood vessels of dog forelimb, 296

reaccumulation, metabolic de-pendence of, by poly-morphonuclear leukocytes, 287-288

PR segment formation, 137 Prednisone, effect of, on renal lesions of lupus glomerulonephritis, 285

Pregnancy, effect of, on insulin metabolism in rat, 247-248

Pressure arterial transmural, effect of, on pulse velocity, 103

curves, pulmonary artery, in patent ductus arteriosus, 228-229

Probenecid, effect of, on excretion of phenolsulphonphthalein (P.S.P.) 276-277

Prognosis, study of, 106 activity, in human Prolactin, blood, 107

Propylthiouracil, in Graves disease, 245

Prosthesis, flap valve, evolution of, in septal defect repair, 102

Protein catabolic rate, 282 plasma, 122 renal clearance of, 282

prothrombin, purified, activa-tion of, 15 Pulmonary diffusing capacity, 230

Pulmonary emphysema bronchial collapse in, 84 chronic hypoxemic, 84

Pulmonary hypertension, development of, in mitral stenosis, 101

Pulmonary vascular bed, characteristics and volume of, 127

Pulse, velocity, effect of arterial transmural pressure on, 103

Pulmonary volume, in valvular heart disease, 230-231 Pulmonary wedge position, 229-230

Pyelonephritis

immunologic disturbances in, 284-285

morphology, function and sus-ceptibility to, 404 in rat, 284

Pyloric obstruction, 400

Pyrazinamide, effect of intravenous administration of, 76

Pyridoxine, deficiency, in con-gestive heart failure, 18-19

Quiactin, 166-167

Radiation sensitizers, quantitative sensitizers, 126 Radiocalcium, in rats, 24 Regurgitation, left ventricular, metered, 102

Rieter protein complement fixation test, in diagnosis of syphilis, 123 Relaxin, use of, 234-235

Renal disease, chronic, 77 Renal failure, acute, 77 Renal function

effect of laxative-produced diarrhea on, 156 studies of, 281-282

Renal hemodynamics, alterations in, 163-164

Renal hypertension, mechanism for, 43-44

Renal insufficiency in acute hypotonicity, 222-223 glomerular perfusion during, 43

phosphate reabsorption in, 389 Renin, 140

Renograms, 42

Reserpine, antitumor activity of, 125-126

Retina, generalized and lateral sheen of, 285-286

Rheumatic fever mimetic nature of, 308-309 rebound phneomenon in, 50 RISA, intra-arterial clearance

of, 139 Rubidium-86, gastrointestinal absorption of, in hyperkalemia, 114

Salicylate

effect of on renal tubular transport of PAH. and potasphosphate sium, 276

toxic doses of, effects of, 169 Saliva, osmotic pressure of, 150 Sarcoidosis, ferrokinetics and erythrokinetics in, 132 SC 8109, action of on electrolyte

excretion, 66 Science, communication as problem of, 315-317

Scleroderma, cardiopulmonary studies in, 239

SCUBA divers, ventilatory response of, 127

Sera differential behavior of, 166

normal, 395 Serine, administration of, to patients with tropical 156 sprue.

Serotonins, effect of

on connective tissue in rat, 395

gastric and pancreatic secretion and bile flow,

Serum

albumin, permeability to, 307-308

differential resin binding of thyroxine in, 241-242 enzyme

activity, 296

alteration, in hematologic diseases, 217

human, bactericidal power of, 269

resin binding of insulin in, 26 SGO-T activity, elevation of, 35 Shock

hemorrhagic

parameters of effectiveness of norepinephrine in,

139-140

small bowel resection in, 155-156

hypovolemic in nephrotic syndrome, 125

Shunts

intracardiac, 230 portal-systemic, 293

pulmonary arterio-venous, 305 Sickel cell disease, 13

Skin, inflammation of, 309 Smoking, pulmonary pathologic physiology caused by 396

Sodium

chloride, study of, in man, 283-284

dietary, effects of, on exchangeable sodium, 283 excretion and mineralocorticoid-glucocorticoid an-

tagonism, 65 filtered load of, and rate of excretion in urine, 274-275

lactate, 97

radioactive, 33

Somatotropin, bovine, 107 Spirometry, single breath, 396

Splenectomy, 54-55, 57 Splenomegaly, 218-219

Sprue, 262 Staphylococci

egg yolk test to determine phagetypability of, 159 nasal carriers, of 158-159, 267

Stenosis, aortic, severe, effects of mitral stenosis on, 232

Steroids

adrenocortical effects of, in congestive heart failure, 233-234

anabolic, structure-activity relationship of, 253

Steroidogenesis, 112

Stomach, role of, 150-151 Streptokinase, buccal, anti-inflammatory effect of, 48 Streptococci, group A, 266-267

Streptovitacin A, 80 Stroke volume, 99

Strophanthidine, 42-43 Sulfobromophthalein (BSP), metabolism of, in hu-

man, 119 Sydenham's chorea, 49

Syndrome

adrenogenital, steroid excretion in, 27-28

clinical, 128 Cushing's

hepato-renal, nature of, 165 laboratory procedures in

diagnosis of, 27 steroid excretion in, 27

of muscle paralysis and hypokalemia, 165

malabsorption, produced by neomycin, 33-34, 260-261

nephrotic abnormal plasma phospholipid pattern in, 278 hypovolemic shock and hy-

potension in, 125 as pertaining to the clinicopathologic correlation, 164-165

Pickwickian, pulmonary vasobstruction in, cular

Synovium, 307-308 Synthesis

enzymic, 89 lipide, 115-116

Syphilis, diagnosis of, 123

Tachyphylaxis, renin, 140 and noradrenaline failure of response, 236

Testosterone, treatment of myeloid metaplasia with, 210

Therapy

cortisone, 69 experimental, influence of, 118 hypotensive drug, 281-282 intravenous fibrinolysin, 137-

138 Iproniazid, 140 radiation, 111-112

sodium phytate, 286 Thoracic deformity, 47 Thrombocythemia, 212-213 Thrombocytopenia, 57

Thymidine in vitro incorporation of, 207-208

tritiated, in vivo metabolism of, 68

Thyroid function

effect of 17 α-methyl-19nortestosterone administration on, 240

test of, 242-243 hormone-plasma protein complex, in Grave's disease, 23

I's uptake, 389

Tidal volume, 407 Tissue, human fetal hematopoietic, 214-215

Tissue citrate, 113-114 Tolbutamide, 249

Toxemia, uric acid excretion of, of pregnancy, 279 Tracheostomy, physiologic alter-

ations following, 172 Transfusions, homologous, cytopenic effect of, in humans, 209-210

Transplants, intra-ocular, pituitary, 389
Triolein I¹⁸¹, distribution of, 105-

106

Tuberculosis, 74 M., isolation of, 74 T-waves, origin of, 220

Ulcer

duodenal, and gastric resec-tion, 391

gastric, healing rate of, 391 Ulceration, gastric, in polycythemia, 70

Uracil mustard, 57-58

anti-tumor activity of, 46-47 Urea, excretion of, by dog, 274 Uremia, qualitative platelet de-fect in, 212

Uricolysis, by hematin proteins, 257-258

Urinary tract, infection of, 45 Uric acid

renal excretion of, 113 tubular reabsorption of, 76

calcium phosphate solubility in, 124-125

specific gravity of, and uri-nary osmolarity, 76 Uropepsin, excretion of, 152

Vagotomy, high cervical, 152-153

Valvuloplasty, aortic hemodynamic effects of, 232

Vasopressin

effects of administration of, in man, 272 antidiuretic action of, effect

of calcium on, 272 Vectorplethysmography, in health and disease, 104

Ventilation, mechanical, effect of during thoracic surgery, 172-173

Ventricle, ischemic, activation of, 223 Vessel, wall defect, 213

Vitamin B12

binding substance, excretion of, 209 effect of, on muscular contrac-

tion, in myxedema, 143 Volume, arterial, in valvular heart disease, 230-231

Water, red cell, efflux of, into buffered hypertonic solutions, 385

Xylose test, in diagnosis of intestinal malabsorption, 261-262

Zoxazolamine. uricosuric as agent, 66

ie] ui-)5ec-91 y-47 74 lety i-2f, et n 4 et n ... 3 r